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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

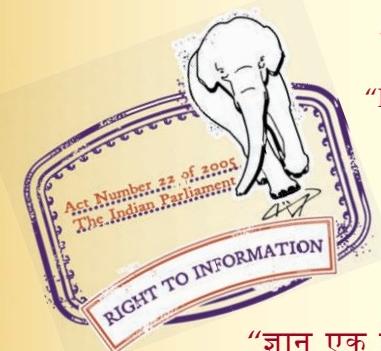
“Step Out From the Old to the New”

IS 11693 (2006): Shipbuilding - Inland navigation -
Cable-lifters for stud-link anchor chains [TED 18: Inland,
Harbour Crafts and Fishing Vessels]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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पोत निर्माण — अन्तर्देशीय नौ चालन — रस्टड-लिंक
एंकर चेन के लिए केबल उत्थापक
(पहला पुनरीक्षण)

Indian Standard
SHIPBUILDING — INLAND NAVIGATION —
CABLE-LIFTERS FOR STUD-LINK ANCHOR
CHAINS
(*First Revision*)

ICS 47.060

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical with ISO 21 : 1985 'Shipbuilding — Inland navigation — Cable-lifters for stud-link anchor chains' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Inland Harbour Crafts and Fishing Vessels Sectional Committee and approval of the Transport Engineering Division Council.

This Standard was originally published in 1986. This revision has been taken up to harmonize it with the latest version of ISO Standard.

The text of the ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The technical committee responsible for the preparation of this standard has reviewed the provisions of the following International Standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 1704 : 1991	Shipbuilding — Stud-link anchor chains

For BIS Certification Marking, details are given in National Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SHIPBUILDING — INLAND NAVIGATION — CABLE-LIFTERS FOR STUD-LINK ANCHOR CHAINS

(*First Revision*)

1 Scope and field of application

This International Standard specifies types and basic dimensions of cable-lifters for stud-link anchor chains used on inland vessels.

2 Reference

ISO 1704, *Shipbuilding — Stud-link anchor chains.*¹⁾

3 Types

Cable-lifters are identified in three types:

- A — with five snugs
- B — with six snugs
- C — with seven snugs

4 Dimensions

Basic dimensions of cable-lifters shall correspond to those indicated in the figure and in the table.

5 Materials

Cable-lifters shall be manufactured of materials meeting the requirements of classification societies.

6 Manufacture

6.1 Proper bedding of the cable in the cable-lifter remains the manufacturer's responsibility.

6.2 Proper functioning of the windlass cable-lifter is to be verified during the ship's anchor trials.

7 Designation

The designation of cable-lifters in accordance with this International Standard shall contain the following elements in the order given:

- a) name: cable-lifter;
- b) number of this International Standard: ISO 21;
- c) type: see clause 3;
- d) chain-link nominal diameter: see the table.

Example:

A cable-lifter in accordance with this International Standard with five snugs, chain-link nominal diameter $d = 16$ mm shall be designated as follows:

Cable-lifter ISO 21 - A16

1) At present at the stage of draft. (Revision of ISO 1704-1973.)

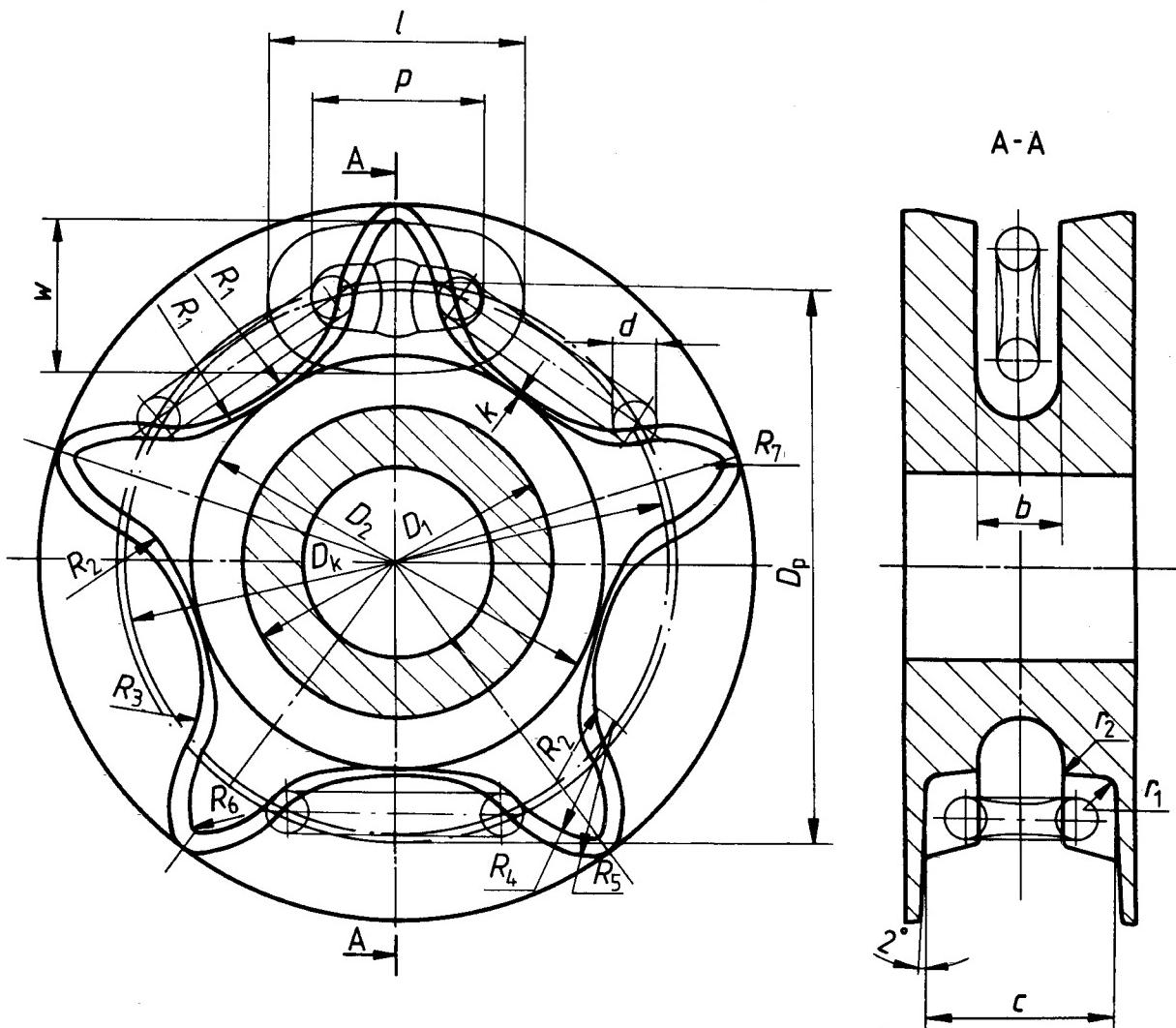


Figure — Cable-lifters for stud-link anchor chains

Table — Basic dimensions of cable-lifters for stud-link anchor chains

Dimensions in millimetres

Link ¹⁾				Type	Cable-lifter																		
d	l	p	w		n ²⁾	D _p	D _k	D ₁	D ₂	R ₁	R ₂	R ₃	R ₄	R ₅	R ₆	R ₇	r ₁	r ₂	k	b	c		
1	2	3	4	A	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
11	66	44	40		B	5	143	139	81	108	110	22	30	32	36	3	7	3,5	1,5	1,5	18	53	
					C	6	170	166	109	137													
					A	7	198	193	126	160													
12,5	75	50	45	B	5	162	158	92	122	125	25	34	37	41	3	8	4	1,5	1,5	21	60		
					C	6	194	189	124	156													
					A	7	225	219	144	181													
14	84	56	50	C	A	5	182	177	103	137	140	28	38	41	46	4	9	4,5	2	2	23,5	68	
					B	6	217	200	131	166													
					C	7	252	246	161	203													
16	96	64	58	A	B	5	208	203	117	157	160	32	44	47	53	4	11	5	2	2	27	78	
					C	6	248	242	158	200													
					A	7	288	281	184	232													
17,5	105	70	63	B	C	5	227	222	128	171	175	35	48	51	58	4,5	12	6	2	2	29	85,5	
					C	6	271	264	173	219													
					A	7	316	308	202	255													
19	114	76	68	C	A	5	247	241	139	186	190	38	52	56	63	5	13	6	2,5	2,5	32	93	
					B	6	294	287	188	237													
					C	7	341	332	218	275													
20,5	123	82	74	A	B	5	266	260	150	201	205	41	56	60	68	5,5	14	7	3	3	34,5	100	
					C	6	317,5	309	203	252													
					A	7	369	360	236	298													
22	132	88	79	B	C	5	286	279	162	215	220	44	60	64	73	6	15	7	3	3	37	107	
					A	6	341	332	237	275													
					C	7	396	386	253	319													
24	144	96	86	C	A	5	312	304	176	235	240	48	65	70	79	6	16	8	3	3	40,5	117	
					B	6	372	362	238	300													
					C	7	433	422	277	349													
26	156	104	94	A	B	5	338	329	191	254	260	52	71	76	86	7	17	9	3,5	3,5	43	127	
					C	6	403	392	257	325													
					A	7	468	456	299	377													
28	168	112	101	B	C	5	364	355	206	274	280	56	76	82	92	7	19	9	4	3,5	47	137	
					A	6	434	423	277	350													
					C	7	505	492	323	407													
30	180	120	108	C	A	5	390	380	220	294	300	60	82	88	99	8	20	10	4	4	50,5	147	
					B	6	465	453	297	375													
					C	7	539	523	344	435													
32	192	128	115	A	B	5	415	405	235	313	320	64	87	94	106	8,5	21	11	4	4	54	157	
					C	6	496	483	317	400													
					A	7	576	561	368	465													
34	204	136	122	B	C	5	441	431	250	333	340	68	93	100	112	9	23	11	4,5	4,5	57	167	
					A	6	526,5	513	337	425													
					C	7	613	597	392	494													

Table — Basic dimensions of cable-lifters for stud-link anchor chains (concluded)

Dimensions in millimetres

Link ¹⁾				Cable-lifter																	
d	l	p	w	Type	n ²⁾	D _p	D _k	D ₁	D ₂	R ₁	R ₂	R ₃	R ₄	R ₅	R ₆	R ₇	r ₁	r ₂	k	b	c
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
36	216	144	130	A	5	467,5	456	264	352	360	72	98	105	118	9,5	24	12	5	5	60,5	177
				B	6	557,5	543	356	450												
				C	7	648	632	414	523												
38	228	152	137	A	5	493,5	481	279	372	380	76	104	111	125	10	25	13	5	5	64	187
				B	6	588,5	574	376	475												
				C	7	684	667	437	552												
40	240	160	144	A	5	519,5	507	294	392	400	80	109	117	132	11	27	13	5	5	67,5	197
				B	6	619,5	604	396	500												
				C	7	721	703	461	581												
42	252	168	151	A	5	545	532	308	411	420	84	115	123	139	11	28	14	5,5	5,5	69	204
				B	6	650	633	415	524												
				C	7	756	737	483	610												
44	264	176	158	A	5	572	558	323	431	440	88	120	129	145	12	29	15	6	6	73	213
				B	6	682	665	436	550												
				C	7	793	773	507	640												

1) Principal dimensions: d = nominal diameter of link (column 1)

l = length of link (column 2)

p = pitch of link (column 3)

w = width of link (column 4)

2) n = number of snugs

NATIONAL ANNEX A

(*National Foreword*)

A-1 BIS CERTIFICATION MARKING

A-1.1 The product may also be marked with the Standard Mark.

A-1.1.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards*

Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

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Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards: Monthly Additions'.

This Indian Standard has been developed from Doc: No. TED 18 (512).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones: 2323 0131, 2323 3375, 2323 9402

website : www.bis.org.in

Regional Offices:

Telephones

**Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002**

{ 2323 7617
{ 2323 3841

**Eastern : 1/14 C.I.T. Scheme VII M, V.I.P. Road, Kankurgachi
KOLKATA 700054**

{ 2337 8499, 2337 8561
 { 2337 8626, 2337 9120 }

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022

{ 260 3843
{ 260 9285

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113

{ 2254 1216, 2254 1442
 { 2254 2519, 2254 2315

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
MUMBAI 400093

{ 2832 9295, 2832 7858
{ 2832 7891, 2832 7892

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